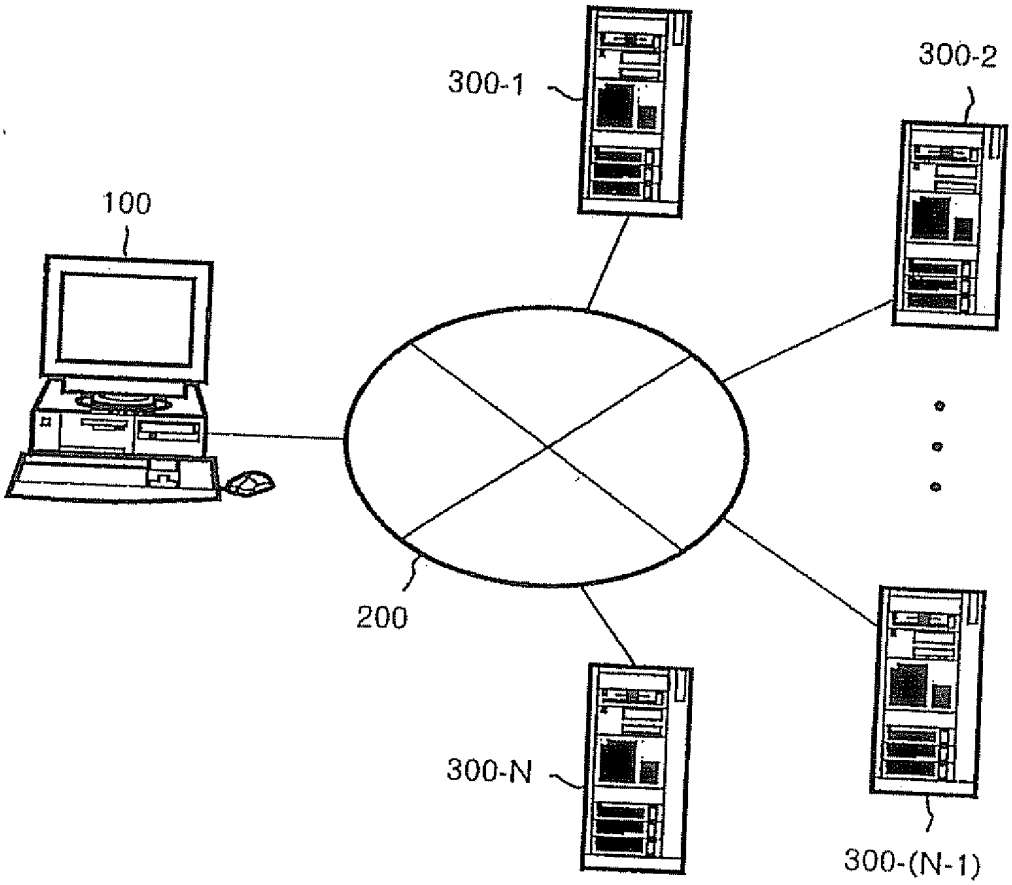
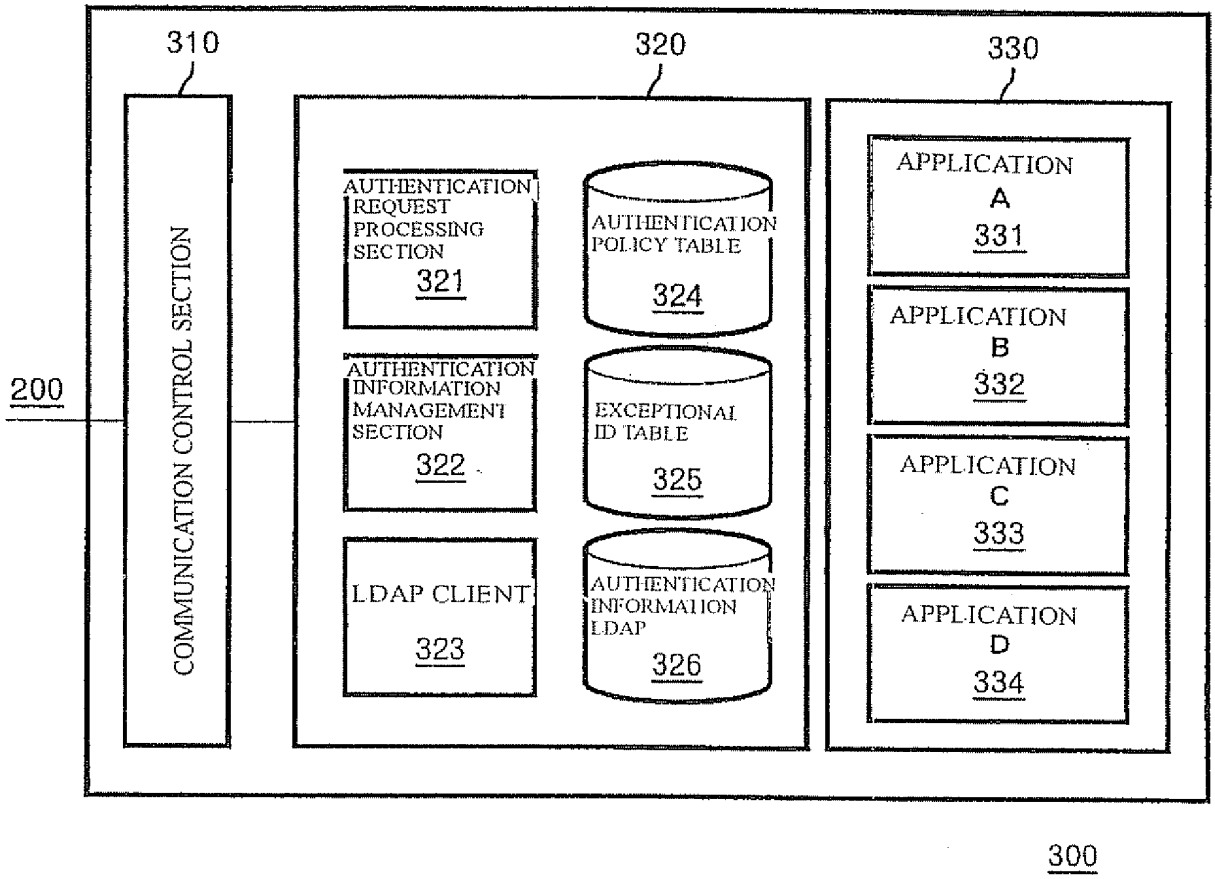
[Document type] Drawing

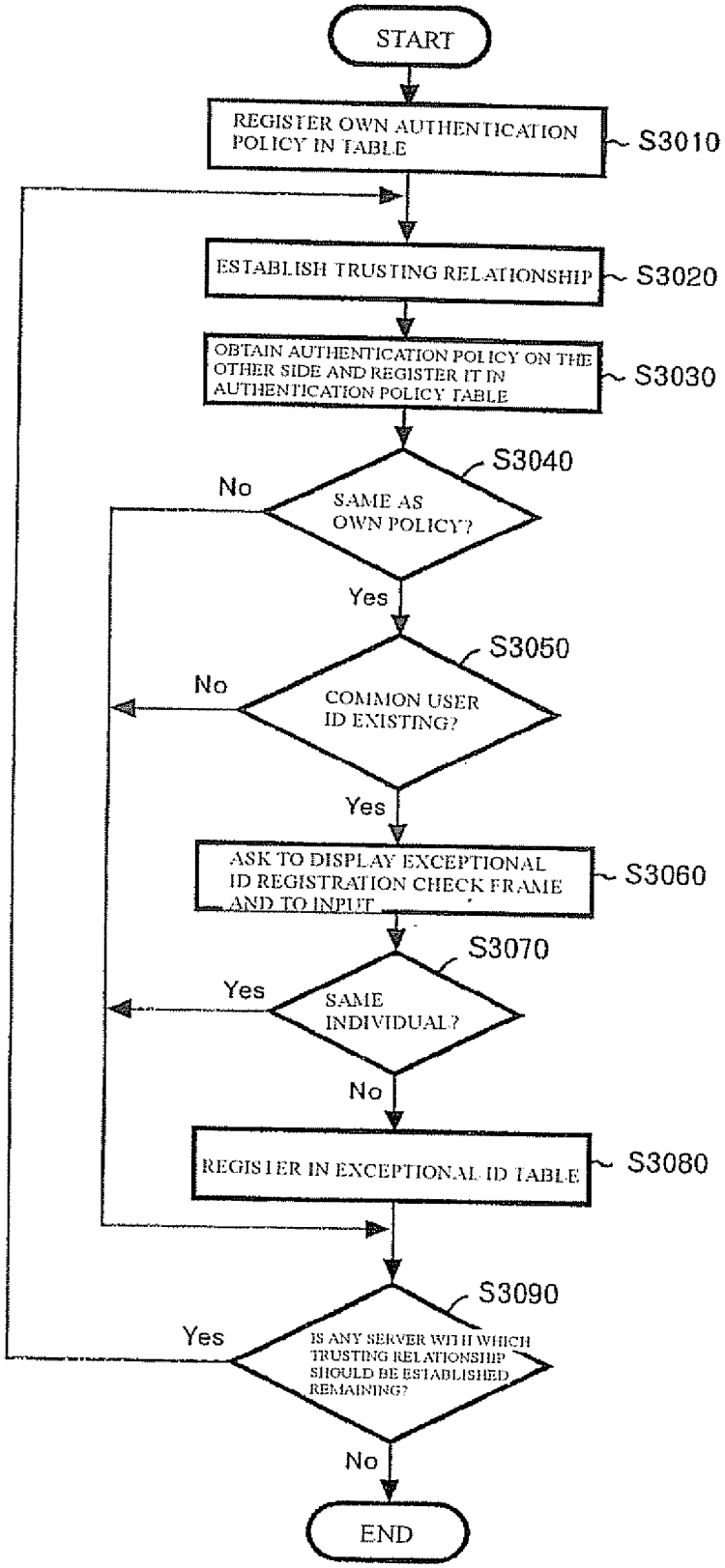
[Figure 1] (1/8)



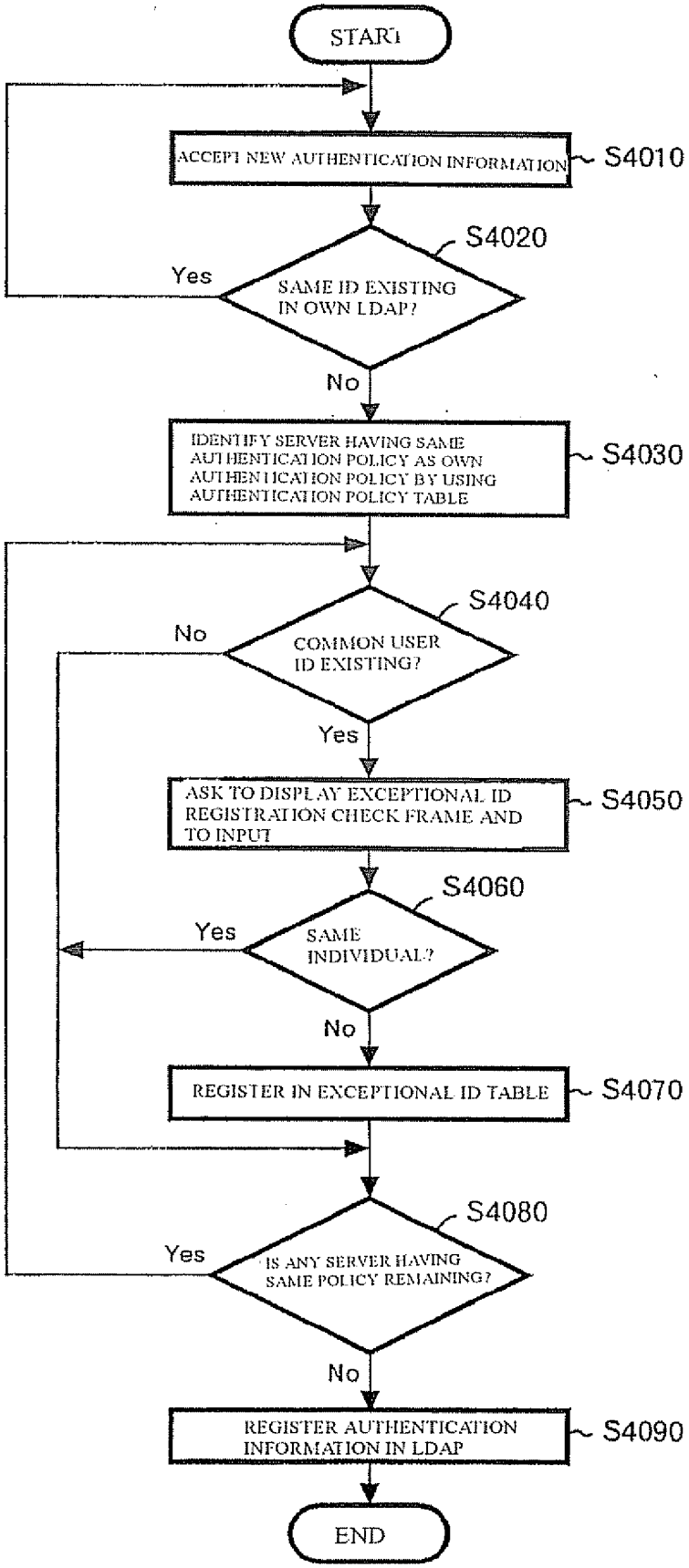
[Figure 2]


310
320
330
COMMUNICATION CONTROL SECTION
AUTHENTICATION REQUEST PROCESSING SECTION
321
AUTHENTICATION INFORMATION MANAGEMENT SECTION
322
LDAP CLIENT
323
AUTHENTICATION POLICY TABLE
324
EXCEPTIONAL ID TABLE
325
AUTHENTICATION INFORMATION LDAP
326
APPLICATION A
331
APPLICATION B
332
APPLICATION C
333
APPLICATION D
334
200
300

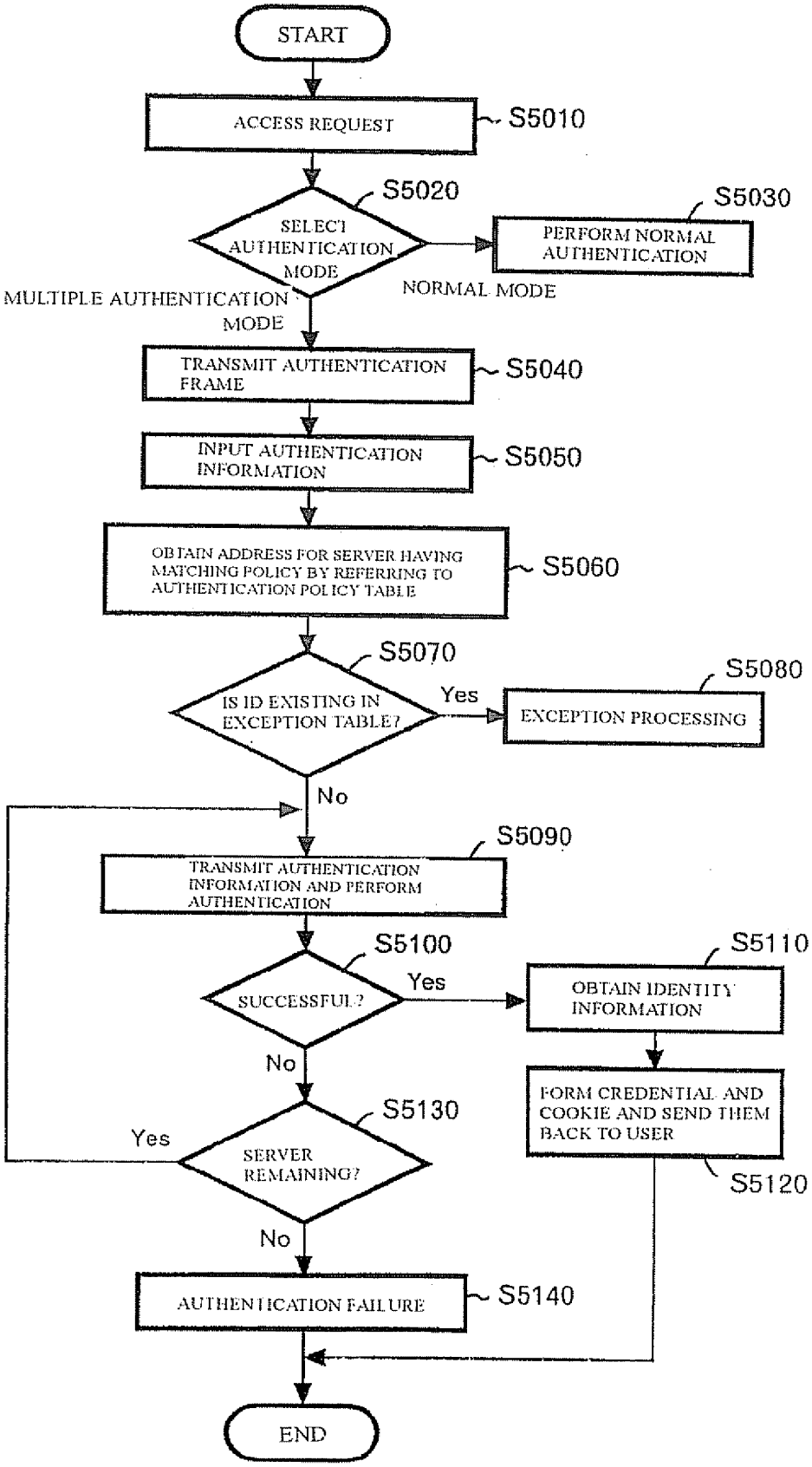
[Figure 3] (3/8)


START
REGISTER OWN AUTHENTICATION POLICY IN TABLE
S3010
ESTABLISH TRUSTING RELATIONSHIP
S3020
OBTAIN AUTHENTICATION POLICY ON THE OTHER SIDE AND REGISTER IT IN AUTHENTICATION POLICY TABLE
S3030
S3040
SAME AS OWN POLICY?
No
Yes
S3050
COMMON USER ID EXISTING?
No
Yes
ASK TO DISPLAY EXCEPTIONAL ID REGISTRATION CHECK FRAME AND TO INPUT
S3060
S3070
SAME INDIVIDUAL?
Yes
No
REGISTER IN EXCEPTIONAL ID TABLE
S3080
S3090
IS ANY SERVER WITH WHICH TRUSTING RELATIONSHIP SHOULD BE ESTABLISHED REMAINING?
Yes
No
END

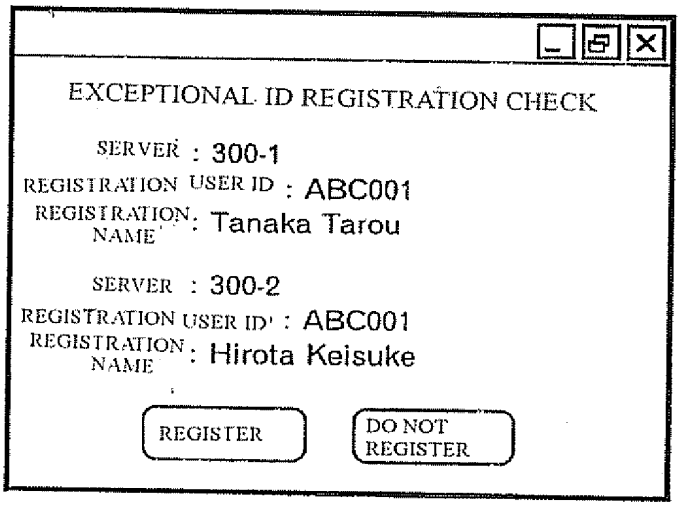
[Figure 4] (4/8)


START
ACCEPT NEW AUTHENTICATION INFORMATION
S4010
S4020
SAME ID EXISTING IN OWN LDAP?
Yes
No
IDENTIFY SERVER HAVING SAME AUTHENTICATION POLICY AS OWN AUTHENTICATION POLICY BY USING AUTHENTICATION POLICY TABLE
S4030
S4040
COMMON USER ID EXISTING?
No
Yes
ASK TO DISPLAY EXCEPTIONAL ID REGISTRATION CHECK FRAME AND TO INPUT
S4050
S4060
SAME INDIVIDUAL?
Yes
No
REGISTER IN EXCEPTIONAL ID TABLE
S4070
S4080
IS ANY SERVER HAVING SAME POLICY REMAINING?
Yes
No
REGISTER AUTHENTICATION INFORMATION IN LDAP
S4090
END

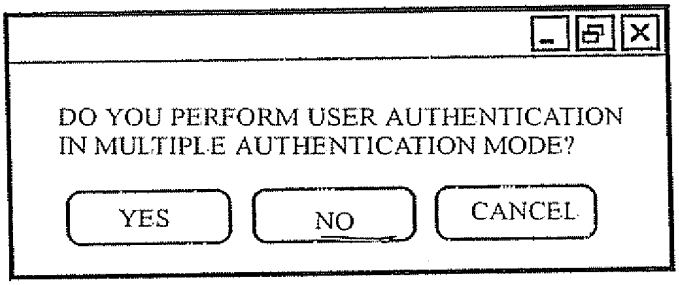
[Figure 5] (5/8)


START
ACCESS REQUEST
S5010
S5020
SELECT AUTHENTICATION MODE
S5030
PERFORM NORMAL AUTHENTICATION
NORMAL MODE
MULTIPLE AUTHENTICATION MODE
TRANSMIT AUTHENTICATION FRAME
S5040
INPUT AUTHENTICATION INFORMATION
S5050
OBTAIN ADDRESS FOR SERVER HAVING MATCHING POLICY BY REFERRING TO AUTHENTICATION POLICY TABLE
S5060
S5070
IS ID EXISTING IN EXCEPTION TABLE?
Yes
S5080
EXCEPTION PROCESSING
No
S5090
TRANSMIT AUTHENTICATION INFORMATION AND PERFORM AUTHENTICATION
S5100
SUCCESSFUL?
Yes
S5110
OBTAIN IDENTITY INFORMATION
No
FORM CREDENTIAL AND COOKIE AND SEND THEM BACK TO USER
S5120
S5130
Yes
SERVER REMAINING?
No
AUTHENTICATION FAILURE
S5140
END

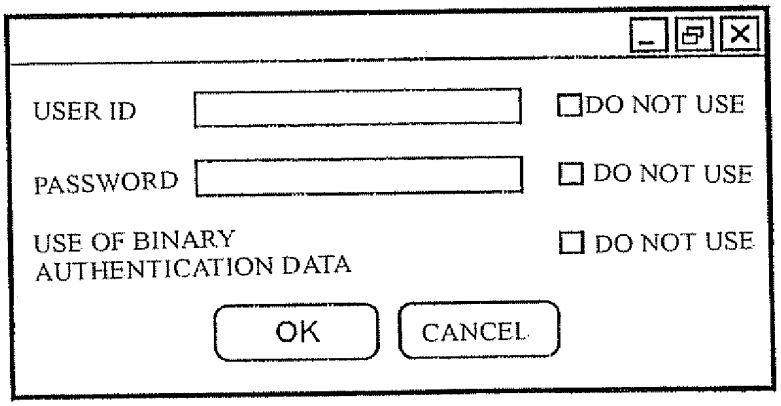
[Figure 6] (6/8)



[Figure 7]



[Figure 8]



[Figure 9] (7/8)

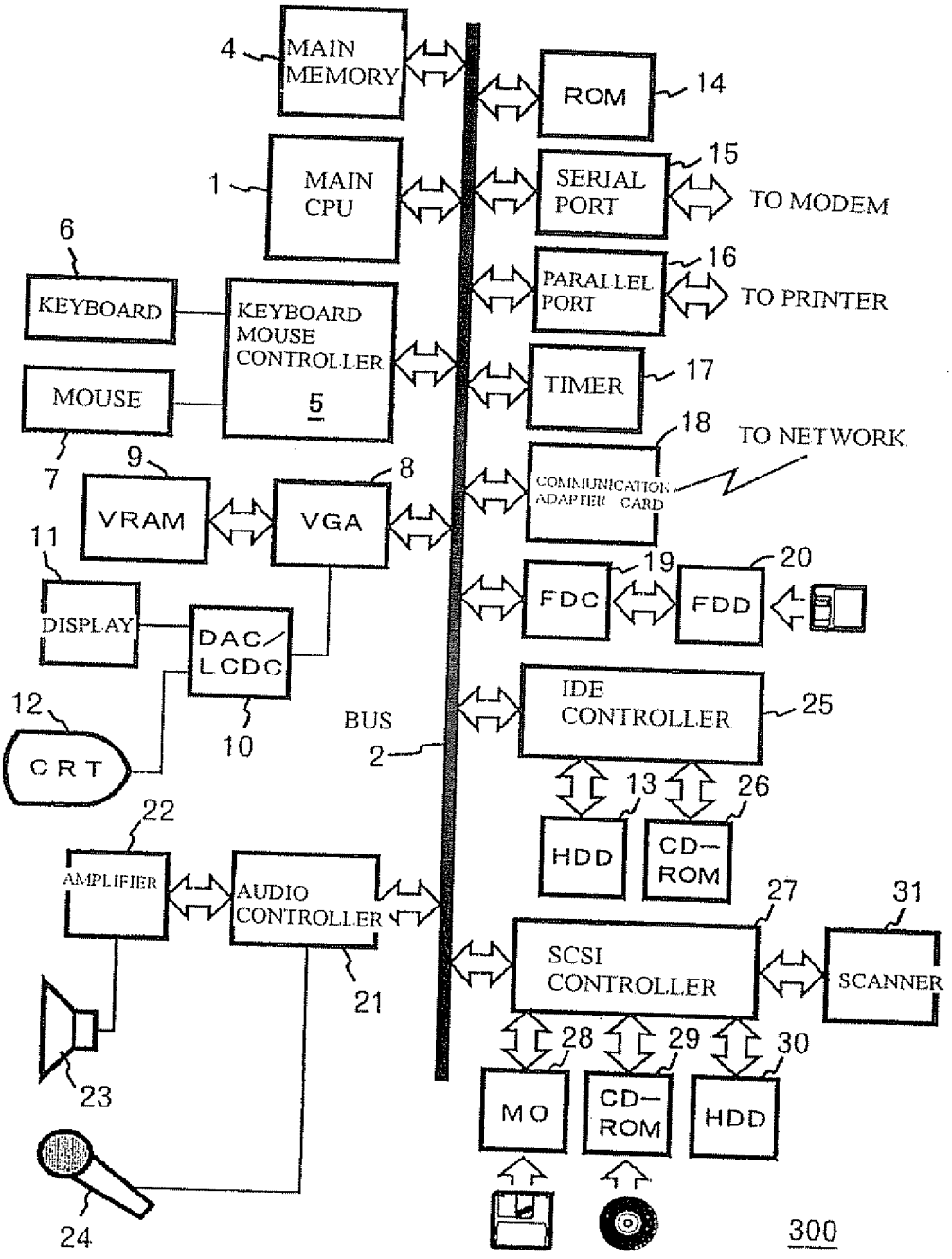
(A REPRESENTING ALPHABETIC CHARACTER, N REPRESENTING NUMERIC CHARACTER)

AUTHENTICATION POLICY	SERVER ADDRESS	PRIORITY
USER ID : AAANNN PASSWORD : AAAA	server300-1.com	1
	server300-2.com	2
	server300-3.com	3
USER ID : AAAAAAAA PASSWORD : OPTIONAL	server300-4.com	1
	server300-5.com	2
FINGERPRINT AUTHENTICATION BINARY SIZE : 100 bytes	server300-6.com	1
	server300-7.com	2
VOICE PRINT AUTHENTICATION BINARY SIZE : 200 bytes	server300-8.com	—

[Figure 10]

SERVER ADDRESS	EXCEPTIONAL ID
server300-1.com	ABC001, DEF002, GHI003
server300-2.com	ABC001, DEF002
server300-3.com	ABC001, GHI003
server300-4.com	ABCDEFGH
server300-5.com	ABCDEFGH
server300-6.com	NONE
server300-7.com	NONE
server300-8.com	NONE

[Figure 11] (8/8)


4
MAIN MEMORY
ROM
14
1
MAIN CPU
SERIAL PORT
15
TO MODEM
6
KEYBOARD
KEYBOARD MOUSE CONTROLLER
5
PARALLEL PORT
16
TO PRINTER
MOUSE
7
TIMER
17
18
TO NETWORK
COMMUNICATION ADAPTER CARD
9
VRAM
VGA
8
11
DISPLAY
DAC/LCDC
10
FDC
19
FDD
20
12
CRT
BUS
2
IDE CONTROLLER
25
13
26
HDD
CD-ROM
22
AMPLIFIER
AUDIO CONTROLLER
21
27
SCSI CONTROLLER
31
SCANNER
23
28
29
30
MO
CD-ROM
HDD
24
300